

# Jared T Shaw

## List of Publications by Year in descending order

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105  
papers

5,952  
citations

109321

35  
h-index

76900

74  
g-index

144  
all docs

144  
docs citations

144  
times ranked

7451  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Inhibition of the Mitochondrial Division Dynamin Reveals Its Role in Bax/Bak-Dependent Mitochondrial Outer Membrane Permeabilization. <i>Developmental Cell</i> , 2008, 14, 193-204.	7.0	992
2	A New Copper Acetate-Bis(oxazoline)-Catalyzed, Enantioselective Henry Reaction. <i>Journal of the American Chemical Society</i> , 2003, 125, 12692-12693.	13.7	473
3	Recent advances in multicomponent reactions for diversity-oriented synthesis. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 371-382.	6.1	460
4	Diastereoselective Magnesium Halide-Catalyzed anti-Aldol Reactions of Chiral N-Acyloxazolidinones. <i>Journal of the American Chemical Society</i> , 2002, 124, 392-393.	13.7	280
5	A Stereoelectronic Model To Explain the Highly Stereoselective Reactions of Nucleophiles with Five-Membered-Ring Oxocarbenium Ions. <i>Journal of the American Chemical Society</i> , 1999, 121, 12208-12209.	13.7	216
6	Stereoselective C-Glycosylation Reactions of Ribose Derivatives: A Electronic Effects of Five-Membered Ring Oxocarbenium Ions. <i>Journal of the American Chemical Society</i> , 2005, 127, 10879-10884.	13.7	197
7	Cyclic Anhydrides in Formal Cycloadditions and Multicomponent Reactions. <i>Chemical Reviews</i> , 2009, 109, 164-189.	47.7	171
8	The Correct Structure of Aquatolide – Experimental Validation of a Theoretically-Predicted Structural Revision. <i>Journal of the American Chemical Society</i> , 2012, 134, 18550-18553.	13.7	148
9	Magnesium Halide-Catalyzed Anti-Aldol Reactions of Chiral N-Acylthiazolidinethiones. <i>Organic Letters</i> , 2002, 4, 1127-1130.	4.6	138
10	Enantioselective Intramolecular C-H Insertion Reactions of Donor-Donor Metal Carbenoids. <i>Journal of the American Chemical Society</i> , 2014, 136, 15142-15145.	13.7	134
11	Transition Metal Catalyzed Insertion Reactions with Donor/Donor Carbenes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6864-6878.	13.8	107
12	Targeting the Bacterial Division Protein FtsZ. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 6975-6998.	6.4	93
13	Enantioselective C-H Insertion Reactions of Diarylcarbenes for the Synthesis of Silicon-Stereogenic Silanes. <i>Journal of the American Chemical Society</i> , 2020, 142, 11674-11679.	13.7	88
14	Synthesis of Antimicrobial Natural Products Targeting FtsZ: (±)-Dichamanetin and (±)-2-Hydroxy-5-benzylisouvarinol-B. <i>Organic Letters</i> , 2005, 7, 5609-5612.	4.6	83
15	Comparative Evaluation of Substituent Effect on the Photochromic Properties of Spiropyrans and Spirooxazines. <i>Journal of Organic Chemistry</i> , 2016, 81, 8744-8758.	3.2	83
16	Tandem Aldol-Tishchenko Reactions of Lithium Enolates: A Highly Stereoselective Method for Diol and Triol Synthesis. <i>Journal of Organic Chemistry</i> , 1997, 62, 5674-5675.	3.2	77
17	Diastereoselective Synthesis of $\beta$ -Lactams by a One-Pot, Four-Component Reaction. <i>Organic Letters</i> , 2007, 9, 4077-4080.	4.6	75
18	Synthesis of Diverse Lactam Carboxamides Leading to the Discovery of a New Transcription-Factor Inhibitor. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5352-5355.	13.8	71

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19	Comparison of Small Molecule Inhibitors of the Bacterial Cell Division Protein FtsZ and Identification of a Reliable Cross-Species Inhibitor. <i>ACS Chemical Biology</i> , 2012, 7, 1918-1928.	3.4	71
20	Cycloaddition Reactions of Imines with 3-Thiosuccinic Anhydrides: Synthesis of the Tricyclic Core of Martinellin. <i>Organic Letters</i> , 2006, 8, 3999-4002.	4.6	67
21	A Structurally Diverse Library of Polycyclic Lactams Resulting from Systematic Placement of Proximal Functional Groups. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1722-1726.	13.8	61
22	Applied Computational Chemistry for the Blind and Visually Impaired. <i>Journal of Chemical Education</i> , 2012, 89, 1400-1404.	2.3	57
23	Plastidial metabolite MEcPP induces a transcriptionally centered stress-response hub via the transcription factor CAMTA3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8855-8860.	7.1	57
24	Zinc-Catalyzed Silylation of Terminal Alkynes. <i>Journal of Organic Chemistry</i> , 2008, 73, 2912-2915.	3.2	52
25	Trapping and Electron Paramagnetic Resonance Characterization of the 5'-Adenosyl Methionine Enzyme Reaction with a Non-Native Substrate. <i>ACS Central Science</i> , 2019, 5, 1777-1785.	11.3	49
26	Ammonia synthons for the multicomponent assembly of complex $\beta$ -lactams. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6781-6786.	7.1	48
27	Synthesis of Antimicrobial Natural Products Targeting FtsZ: (+)-Totarol and Related Totarane Diterpenes. <i>Organic Letters</i> , 2010, 12, 3324-3327.	4.6	47
28	Failsafe Mechanisms Couple Division and DNA Replication in Bacteria. <i>Current Biology</i> , 2014, 24, 2149-2155.	3.9	46
29	Inhibitors of bacterial tubulin target bacterial membranes <i>in vivo</i> . <i>MedChemComm</i> , 2013, 4, 112-119.	3.4	45
30	Synthesis of Benzodihydrofurans by Asymmetric C-H Insertion Reactions of Donor/Donor Rhodium Carbenes. <i>Chemistry - A European Journal</i> , 2017, 23, 11843-11855.	3.3	43
31	Identification of the Molecular Target of Small Molecule Inhibitors of HDL Receptor SR-BI Activity. <i>Biochemistry</i> , 2008, 47, 460-472.	2.5	42
32	Synthesis of (S)-Viriditoxin: A 6,6-Binaphthopyranone that Targets the Bacterial Cell Division Protein FtsZ. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3730-3733.	13.8	42
33	Stereocontrol in Asymmetric $\beta$ -Lactam Syntheses from Imines and Cyanosuccinic Anhydrides. <i>Organic Letters</i> , 2013, 15, 5130-5133.	4.6	38
34	Enantioselective Synthesis of Indolines, Benzodihydrothiophenes, and Indanes by C-H Insertion of Donor/Donor Carbenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15213-15216.	13.8	37
35	Divergent diastereoselectivity in the addition of nucleophiles to tetrahydrofuran-derived oxonium ions. <i>Tetrahedron</i> , 1999, 55, 8747-8756.	1.9	36
36	Toward Structural Correctness: Aquatolide and the Importance of 1D Proton NMR FID Archiving. <i>Journal of Organic Chemistry</i> , 2016, 81, 878-889.	3.2	36

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37	Stereo- and Regiochemistry of Aldehyde Insertions into the C-Si Bonds of Siliranes. <i>Journal of the American Chemical Society</i> , 1995, 117, 10575-10576.	13.7	35
38	Synthesis of Kaempferitrin. <i>Journal of Organic Chemistry</i> , 2007, 72, 4582-4585.	3.2	35
39	One-Step Synthesis of Complex Nitrogen Heterocycles from Imines and Alkyl-Substituted Maleic Anhydrides. <i>Organic Letters</i> , 2009, 11, 3802-3805.	4.6	35
40	Naturally diverse: highlights in versatile synthetic methods enabling target- and diversity-oriented synthesis. <i>Natural Product Reports</i> , 2009, 26, 11-26.	10.3	35
41	Synthesis and Evaluation of Quinazolines as Inhibitors of the Bacterial Cell Division Protein FtsZ. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 308-312.	2.8	33
42	Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. <i>ACS Central Science</i> , 2018, 4, 1727-1741.	11.3	32
43	Enantioselective synthesis of isochromans and tetrahydroisoquinolines by C-H insertion of donor/donor carbenes. <i>Chemical Science</i> , 2020, 11, 494-498.	7.4	31
44	Catalytic alkene cyclization reactions for the stereoselective synthesis of complex $\alpha$ -terpenoid-like heterocycles. <i>Chemical Science</i> , 2013, 4, 292-296.	7.4	30
45	N-Benzyl-3-sulfonamidopyrrolidines as novel inhibitors of cell division in <i>E. coli</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 6651-6655.	2.2	29
46	Stereoselective Synthesis of $\beta^3$ -Lactams from Imines and Cyanosuccinic Anhydrides. <i>Organic Letters</i> , 2013, 15, 5126-5129.	4.6	29
47	Nobody Can See Atoms: Science Camps Highlighting Approaches for Making Chemistry Accessible to Blind and Visually Impaired Students. <i>Journal of Chemical Education</i> , 2014, 91, 188-194.	2.3	29
48	Divergent Diastereoselectivity in the Addition of Nucleophiles to Five-Membered-Ring Oxonium Ions. <i>Journal of Organic Chemistry</i> , 1997, 62, 6706-6707.	3.2	26
49	Characterization of <i>Caulobacter crescentus</i> FtsZ Protein Using Dynamic Light Scattering. <i>Journal of Biological Chemistry</i> , 2012, 287, 23878-23886.	3.4	26
50	Gyramides Prevent Bacterial Growth by Inhibiting DNA Gyrase and Altering Chromosome Topology. <i>ACS Chemical Biology</i> , 2014, 9, 1312-1319.	3.4	26
51	Diastereoselective Synthesis of $\beta^3$ - and $\beta^1$ -Lactams from Imines and Sulfone-Substituted Anhydrides. <i>Journal of Organic Chemistry</i> , 2014, 79, 2601-2610.	3.2	26
52	Stereoselective Insertion of Formamides into the C-Si Bond of Siliranes. <i>Journal of Organic Chemistry</i> , 1997, 62, 442-443.	3.2	25
53	Synthesis and Stereochemical Assignment of Brasilibactin A. <i>Organic Letters</i> , 2007, 9, 1679-1681.	4.6	25
54	Diastereoselective Synthesis of ( $\Delta^{\pm}$ )-Heliotropamide by a One-Pot, Four-Component Reaction. <i>Journal of Organic Chemistry</i> , 2010, 75, 8333-8336.	3.2	25

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55	Synthesis of 6,6'-Binaphthopyran-2-one Natural Products: Pigmentosin A, Talaroderxines A and B. <i>Organic Letters</i> , 2012, 14, 4338-4341.	4.6	25
56	Synthesis of a $\beta$ -Lactam Library via Formal Cycloaddition of Imines and Substituted Succinic Anhydrides. <i>ACS Combinatorial Science</i> , 2012, 14, 218-223.	3.8	25
57	Divergent Structural Complexity from a Linear Reaction Sequence: Synthesis of Fused and Spirobicyclic $\beta$ -Lactams from Common Synthetic Precursors. <i>ACS Combinatorial Science</i> , 2006, 8, 293-296.	3.3	24
58	Mechanism of Alkoxy Groups Substitution by Grignard Reagents on Aromatic Rings and Experimental Verification of Theoretical Predictions of Anomalous Reactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 6633-6642.	13.7	24
59	Comparison of Proteomic Responses as Global Approach to Antibiotic Mechanism of Action Elucidation. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 65, .	3.2	23
60	Highly Sensitive and Selective Spiropyran-Based Sensor for Copper(II) Quantification. <i>ACS Omega</i> , 2021, 6, 10776-10789.	3.5	23
61	Transition Metal Catalyzed Insertion Reactions with Donor/Donor Carbenes. <i>Angewandte Chemie</i> , 2021, 133, 6940-6954.	2.0	22
62	Stereo- and Regioselectivity of Reactions of Siliranes with Aldehydes and Related Substrates. <i>Journal of Organic Chemistry</i> , 1997, 62, 4737-4745.	3.2	21
63	Influence of HDL-cholesterol-elevating drugs on the in vitro activity of the HDL receptor SR-BI. <i>Journal of Lipid Research</i> , 2007, 48, 1832-1845.	4.2	21
64	Preparation and synthetic utility of oxasilacyclopentane acetals derived from siliranes. <i>Tetrahedron</i> , 1997, 53, 16597-16606.	1.9	20
65	Practical Synthesis of PC190723, an Inhibitor of the Bacterial Cell Division Protein FtsZ. <i>Journal of Organic Chemistry</i> , 2010, 75, 7946-7949.	3.2	20
66	Direct Displacement of Alkoxy Groups of Vinylogous Esters by Grignard Reagents. <i>Journal of Organic Chemistry</i> , 2011, 76, 3515-3518.	3.2	20
67	Diastereoselective Nucleophilic Substitution Reactions of Oxasilacyclopentane Acetals: Application of the "Inside Attack" Model for Reactions of Five-Membered Ring Oxocarbenium Ions. <i>Journal of Organic Chemistry</i> , 2002, 67, 2056-2064.	3.2	19
68	<i>N</i> -Benzyl-3-sulfonamidopyrrolidines Are a New Class of Bacterial DNA Gyrase Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 289-292.	2.8	19
69	Carbon-Carbon Bond-Forming Reactions of $\beta$ -Thioaryl Carbonyl Compounds for the Synthesis of Complex Heterocyclic Molecules. <i>Journal of Organic Chemistry</i> , 2012, 77, 160-172.	3.2	19
70	Diastereoselective Synthesis of and Mechanistic Understanding for the Formation of 2-Piperidinones from Imines and Cyano-Substituted Anhydrides. <i>Chemistry - A European Journal</i> , 2016, 22, 4794-4801.	3.3	19
71	Synthesis of Esters by in Situ Formation and Trapping of Diazoalkanes. <i>Journal of Organic Chemistry</i> , 2016, 81, 5278-5284.	3.2	19
72	Mechanistic Investigation of Castagnoli-Cushman Multicomponent Reactions Leading to a Three-Component Synthesis of Dihydroisoquinolones. <i>Journal of Organic Chemistry</i> , 2021, 86, 11599-11607.	3.2	19

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73	The Synthesis and Antimicrobial Activity of Heterocyclic Derivatives of Totarol. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 818-822.	2.8	18
74	Diastereoselective Base-Catalyzed Formal [4 + 2] Cycloadditions of <i>N</i> -Sulfonyl Imines and Cyclic Anhydrides. <i>Organic Letters</i> , 2017, 19, 2466-2469.	4.6	18
75	Second-Generation Synthesis of (-)-Viriditoxin. <i>Synthesis</i> , 2012, 44, 362-371.	2.3	15
76	Synthesis of (±)-Bisavenanthramide B-6 by an Anionic Anhydride Mannich Reaction. <i>Organic Letters</i> , 2016, 18, 1740-1743.	4.6	15
77	Synthesis of a Library of α-Lead-Like β-Lactams by a One Pot, Four-Component Reaction. <i>ACS Combinatorial Science</i> , 2013, 15, 356-362.	3.8	12
78	Organocatalytic Mukaiyama Mannich Reactions of 2,5-Bis(trimethylsilyloxy)furan. <i>Organic Letters</i> , 2019, 21, 5073-5077.	4.6	12
79	Influence of chiral thiols on the diastereoselective synthesis of β-lactams from cyclic anhydrides. <i>Tetrahedron</i> , 2012, 68, 4320-4327.	1.9	11
80	Synthesis of the diaryl ether cores common to chrysopaentins A, E, and F. <i>Tetrahedron Letters</i> , 2015, 56, 3396-3401.	1.4	11
81	Enantioselective Synthesis of Indolines, Benzodihydrothiophenes, and Indanes by C-H Insertion of Donor/Donor Carbenes. <i>Angewandte Chemie</i> , 2018, 130, 15433-15436.	2.0	11
82	Antioxidant Sensing by Spiropyrans: Substituent Effects and NMR Spectroscopic Studies. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6799-6809.	2.6	10
83	Formal [4 + 2] Cycloadditions of Anhydrides and α,β-Unsaturated <i>N</i> -Tosyl Ketimines. <i>Organic Letters</i> , 2019, 21, 1046-1049.	4.6	10
84	Synthesis and hybridization property of an oligonucleotide containing a 3'-thioformcetal linked pentathymidylate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1999, 9, 319-322.	2.2	9
85	Preparation of a conjugation-ready thiol responsive molecular switch. <i>Tetrahedron Letters</i> , 2015, 56, 6569-6573.	1.4	9
86	Targeting quinolone- and aminocoumarin-resistant bacteria with new gyramide analogs that inhibit DNA gyrase. <i>MedChemComm</i> , 2017, 8, 942-951.	3.4	9
87	Synthesis of Spirobicyclic Pyrazoles by Intramolecular Dipolar Cycloadditions/[1s, 5s] Sigmatropic Rearrangements. <i>Organic Letters</i> , 2019, 21, 7209-7212.	4.6	9
88	Divergent stereochemical outcomes in the insertion of donor/donor carbenes into the C-H bonds of stereogenic centers. <i>Chemical Science</i> , 2022, 13, 1030-1036.	7.4	9
89	Enantioselective Synthesis of Isotopically Labeled Homocitric Acid Lactone. <i>Organic Letters</i> , 2013, 15, 5615-5617.	4.6	8
90	Asymmetric Synthesis of Homocitric Acid Lactone. <i>Journal of Organic Chemistry</i> , 2016, 81, 11404-11408.	3.2	8

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91	Design and Synthesis of Mimics of the T7-loop of FtsZ. <i>Organic Letters</i> , 2013, 15, 2700-2703.	4.6	7
92	Synthesis and Comparative Evaluation of Photoswitchable Magnetic Resonance Imaging Contrast Agents. <i>ACS Omega</i> , 2020, 5, 14759-14766.	3.5	7
93	Diastereoselective Addition of Prochiral Nucleophilic Alkenes to $\hat{\pm}$ -Chiral $\langle i \rangle N \langle /i \rangle$ -Sulfonyl Imines. <i>Organic Letters</i> , 2022, 24, 1164-1168.	4.6	7
94	FtsZ-Independent Mechanism of Division Inhibition by the Small Molecule PC190723 in <i>Escherichia coli</i> . <i>Advanced Biology</i> , 2019, 3, 1900021.	3.0	6
95	Acyclic Stereocontrol in the Additions of Nucleophilic Alkenes to $\hat{\pm}$ -Chiral N-Sulfonyl Imines. <i>Chemistry - A European Journal</i> , 2019, 25, 12214-12220.	3.3	5
96	C-H Insertion Reactions of Donor/Donor Carbenes: Inception, Investigation, and Insights. <i>Synlett</i> , 2020, 31, 838-844.	1.8	5
97	Divergent Asymmetric Synthesis of Panowamycins, TM-135, and Veramycin F using C-H Insertion with Donor/Donor Carbenes. <i>Angewandte Chemie - International Edition</i> , 2022, , .	13.8	3
98	Effect of Structure and Intramolecular Distances on Photoswitchable Magnetic Resonance Imaging Contrast Agents. <i>Journal of Organic Chemistry</i> , 2020, 85, 7333-7341.	3.2	2
99	Studies in the Synthesis of Biaryl Natural Products. <i>Strategies and Tactics in Organic Synthesis</i> , 2014, , 225-248.	0.1	1
100	1,3-Asymmetric Induction in Diastereoselective Allylations of Chiral N-Tosyl Imines. <i>Journal of Organic Chemistry</i> , 2022, , .	3.2	1
101	A New Copper Acetate-bis(oxazoline)-Catalyzed, Enantioselective Henry Reaction.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
102	Magnesium Halide Catalyzed anti-Aldol Reactions of Chiral N-Acylthiazolidinethiones.. <i>ChemInform</i> , 2010, 33, 28-28.	0.0	0
103	Organic Linking. <i>ACS Chemical Biology</i> , 2010, 5, 255-256.	3.4	0
104	From bead to flask: Synthesis of a complex $\hat{2}$ -amido-amide for probe-development studies. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 260-264.	2.2	0
105	Divergent Asymmetric Synthesis of Panowamycins, TM-135, and Veramycin F using C-H Insertion with Donor/Donor Carbenes. <i>Angewandte Chemie</i> , 0, , .	2.0	0